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TITLE:

The Eighth Cambridge Workshop on Cool Stars,
Stellar Systems, and the Sun

PRINCIPAL INVESTIGATOR:

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INSTITUTION:

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Athens, GA 30602

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Project Summary

The *Eighth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun* was hosted by the University of Georgia in October 1993. The funding provided by NASA was used to: (a) partially support the travel and lodging expenses of invited speakers and selected graduate and postdoctoral students to the Workshop; (b) contribute to the general conference expenses; and (c) fund all of the advertisement (posters) for the meeting. In all, nearly 200 scientists from approximately 20 countries attended the four day conference. The Workshop drew on the expertise of both stellar and solar astronomers, with observers and theorists focusing on problems important in both stellar and solar research. The main topics emphasized were: (1) the results of recent NASA space missions, (2) angular momentum evolution, (3) Lithium abundances, (4) evolution of magnetic activity, and (5) the ages, masses and positions of cool stars in the HR diagram, partially obtained from recent advancements in IR spectroscopy and high resolution imaging. In addition, we held small, intensive, parallel discussion sessions on other important topics: pre-main-sequence stars, brown dwarfs, binary stars, stellar flares, and "hot" stars. The approximately 750 page proceedings of the Workshop will be published (with J.-P. Caillault as editor) by the Astronomical Society of the Pacific as Volume 64 in their Conference Series. The results of the Workshop represent a synopsis of our achievements thus far in the general area of solar and stellar astrophysics, a review of the challenges that remain, and an indication of what directions we need to focus on in the future.